



TENNESSEE BUREAU OF INVESTIGATION

Forensic Services Division

Forensic Chemistry Standard Operating Procedure Manual

Microscopes

15.0 MICROSCOPES

15.1 *Equipment and Maintenance*

- 15.1.1 Microscopes are used in the TBI FCU to visualize the morphological characteristics of plant material. Various brands of stereomicroscopes may be used providing they are capable of 10X magnification at a minimum.
- 15.1.2 Maintenance requirements are outline in Appendix I. The individual analyst is responsible for performing maintenance and recording it in the microscope log. Each microscope will have a log sheet that will be maintained in a nearby location.
- 15.1.3 Any other maintenance will be performed as necessary. Documentation is not required when replacing light bulbs.
- 15.1.4 Refer to the microscope logbook or Lab Documentation folder in Ensur for logs and additional microscope instructions.

15.2 *Operation*

- Turn on the microscope's light source.
- Ensure that the stage and eyepieces are clean.
- Place the sample on the stage.
- Adjust the magnification power to an appropriate level and adjust the focus as necessary to clearly see the sample.
- View the sample and record observations.
- Remove the sample from the stage and ensure that the stage is clean.
- Turn off the light source when finished using the microscope.